MassDOT Contract No. Federal Aid Project No. CM-002S(910)X,



ENVIRONMENTAL MONITOR REPORT JANUARY 1, 2018 – JANUARY 31, 2018

Distribution

This report was sent to the following individuals via. e-mail:

Greg Kwon, Resident Engineer MADOT, Greg.Kwon@dot.state.ma.us

John Viens, Site Superintenant, D.W. White, jviens@dwwhite.com

Delia Kaye, Natural Resources Director, Town of Concord, dkaye@concordma.gov

The following individuals were also CC'd via e-mail:

Mark Cain, MADOT, mark.cain@dot.state.ma.us
Ann Roche, MADOT, ann.roche@dot.state.ma.us
Amy Lynch, MADOT, amy.lynch@dot.state.ma.us
Tim Kelley, Project Manager, D.W. White, tkelley@dwwhite.com
Rich Kirby, Environmental.com
Rich Kirby, Environmental.com

STATUS OF CONSTRUCTION

Construction has paused due to winter conditions and will resume in the spring.

WEATHER

The weather station at Hanscom Airfield records and publishes real-time precipitation data (USGS 01100568). According to the weather station, three precipitation events which totaled to be 0.65", 0.44", and 0.80" occurred.

SWPPP REPORTS

Copies of the reports are kept in the construction trailer. Copies of the SWPPP Reports are included in this report as an attachment.

OBSERVATIONS

PRIME preformed a site walk on January 15, 2018. No visible sediment washout was observed in resource areas and erosion control is in good condition. Photos of the site walk are included in the Photographic Documentation appendix.

GENERAL SUMMARY

Construction has paused due to winter conditions and will resume in the spring. Erosion control was monitored and no visible sediment washout was entering resource areas.



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			See/reverse	ormalion for instructions of the		
Name of Project	Bruce Fr	eeman Rail Trail	CGP Tracking No	o. MAR10008B	THE ASSESSMENT OF THE PROPERTY	SAMESTAL STREET, SAMEST
Inspector Name, Ti Contact Information	tle &	John Viens- Sunt D M		10000B	Inspection Date	1/16/18
Present Phase of Co		NO WORK	Oracle Construction, Inc.	., 867 Middle Rd. Acushnet	MA 02743, jviens@dwwh	ite.com, (774) 320-5830
Inspection Location inspections are requ specify location wh nspection is being conducted)	(if multiple	ENTIRE	SITE	e - MESUM	E IN SPRIN	16
			,	fferent areas of the site. Check of a 0.25" rain		
Increased Frequ	ency: 🗵	Every 7 days and within designated as Tier 2, Tie	n 24 hours of a 0.25" rain (f er 2.5, or Tier 3)	or areas of sites discharging	to sediment or nutrient-im	Daired Waters or to waters
- Iwi Once ne	r month (foi	stabilized areas) d within 24 hours of a 0.23 frozen conditions where	5" rain (for arid, semi-arid, earth-disturbing activities	or drought-stricken areas du are being conducted)	ring seasonally dry periods	or during drought)
Rain gauge o		a 0.25" storm event? Ded whether a 0.25" storm Weather station reports the inspection (in	Yes No nevent has occurred? resentative of site. Specify inches):	HANSCOM BUR weather station source:	PORCE BASE 1/13/18 .81	//
nsafe Conditions for Did you determin If "ves", com	Inspection that any polete the tol	ortion of your site was u		GP Part 4.1.5? Yes of the ction in this location:	lo	
- Location(s	i) where co	nditions were found:				

Type/Location of E&S Control [Add an additional sheet if necessary]	Repairs Other Mainter Needer	nance	Correct Action Require		Date on Which Maintenance or Corrective Action First Identified?	Notes	
1. N/A	□Yes	Davo	□Yes	Mo	NIA	GROUND F.	KOZEN - NO
2.	□Yes	□№	∐Yes	□№		proportion	KOZEN - NO ENOSION
3.	□Yes	□№о	∐Yes	□No			
i.	□Yes	□No	□Yes	□№			
ī.	□Yes	□No	□Yes	□№			
	□Yes	□No	∐Yes	□№			
	□Yes [□No	□Yes	□No			
	□Yes [⊐Йо	□Yes	□№			
	□Yes [] ONE	□Yes [JNo			
ote: The permit differentiates been to keep controls in effective				JNo			

^{*} Note: The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition and requires repairs if controls are not operating as intended. Corrective actions are triggered only for specific. more serious conditions, which include: 1) A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3; 2) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 3) One of the prohibited discharges in Part 2.3.1 is occurring or has occurred; or 4) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.2. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at www.epa.gov/npdes/stormwater/swppp. See Part 5 of the permit for more information.

Type/Localion of P2 Practices [Add an addilional sheet if necessary]	Repairs or Other Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	Missin/etions) Notes
1. NONE AT THIS TIME	□Yes □No	□Yes ¶No	NA	SITE FROZEN
2.	□Yes □No	□Yes □No		
3.	□Yes □No	□Yes □No		
4.	□Yes □No	□Yes □No		
5.	□Yes □No	□Yes □No		
5.	□Yes □No	□Yes □No		
,	□Yes □No	□Yes □No		
	□Yes □No	□Yes □No		
	□Yes □No	□Yes □No		
ote: The permit differentiates be to keep controls in effective		□Yes □No		

^{*} Note: The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition and requires repairs if controls are not operating as intended. Corrective actions are triggered only for specific, more serious conditions, which include: 1) A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3; 2) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 3) One of the prohibited discharges in Part 2.3.1 is occurring or has occurred; or 4) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.2. If a condition on your site requires a corrective action. you must also fill out a corrective action form found at www.epa.gov/npdes/stormwater/swppp. See Part 5 of the permit for more information.

	MATTER TO THE THE PROPERTY OF	W. Directory	BFRT MassDOT Contract No-9759
Stabilization Area [Add an additional sheet if necessary]	Stabilization Method	alion of Expose a Soil (CGP Pan/2 see heve et of instructions). Have You Infliated Stabilization?	The Control of the Co
1. N/A	NA	☐ YES If yes, provide date:	
2. 3.	·	☐ YES ☐ NO If yes, provide date:	
4.		☐ YES ☐ NÖ If yes, provide dafe:	
5.		☐ YES ☐ NO If yes, provide date:	
•		☐ YES ☐ NO If yes, provide date:	 - -
Was a stormwater discharge or other If "yes", provide the following info Discharge Location	discharge occurring from any pormation for each point of discha	enjor Discharges (CCR Part 41) 6 CCR Part 41) 6 art of your sile at the time of the insp	6) 4 Page 1 No
Add an additional sheet if necessary	Observations		
NONE AT THIS	Describe the discha	_	
NOME AT THIS	At points of discharg signs of erosion and/	ge and the channels and banks of su or sediment accumulation that can	urface waters in the immediate vicinity, are there any visib be attributed to your discharge? Yes No
	I If ves, describe what	you see, specify the location(s) who enance, or corrective action is need	. Find the Lines Line
NONE AT THIS	Describe the dischar		
TIME	If ves, describe wheat	e and the channels and banks of sur or sediment accumulation that can be you see, specify the location(s) when nance, or corrective action is neede	face waters in the immediate vicinity, are there any visible be attributed to your discharge? Yes No re these conditions were found, and indicate whether are to resolve the issue.

The state of the s	of this industrial Contract No-97590
Contractor or Subcontractor Certification	A CONTROL OF THE CONT
"I certify under penalty of law that this document and all attachments were prepared system designed to assure that qualified personnel properly gathered and evaluated person or persons who manage the system, or those parsons discourse."	
system designed to assure that qualified personnel properly gathered and evaluated person or persons who manage the system, or those persons directly responsible for going the system.	the information or supervision in accordance with a
best of my knowledge and belief true	the information submitted. Based on my inquiry of the
person or persons who manage the system, or those persons directly responsible for go best of my knowledge and belief, true, accurate, and complete. I am aware that their including the possibility of fine and imprisonment for knowing violations.	re are significant penalty. The information submitted is, to the
wing vigidijons.	by significant penalties for submitting false information,
Printed Name and Affiliation: JOHN /VIENS DILLARITA	Date: 1/16/18 EDNSTRUCTION
and Admidion: JOHN /VIBIVS ON WHITE	EDNS-18110-121
	· Siche ton
Cerilication and Signature by Pe	Inition of the second s
system designed to assure that qualified personnel properly gathered and evaluated the person or persons who manage the system, or those persons directly responsible for gathered and belief, true, accurate, and complete, Larry when helped to be some the complete of the persons the persons directly responsible for gather the persons that the persons the	Inder my direction or supervision in accord
person or persons who manage the system, or those persons directly responsible for gatt best of my knowledge and belief, true, accurate, and complete. I am aware that there including the possibility of fine and imprisonment for knowing violations."	e information submitted. Based on my inquire at the
ncluding the possibility of the second to and complete. I am aware that the	hering the information, the information submitted in the
best of my knowledge and belief, true, accurate, and complete. I am aware that there including the possibility of fine and imprisonment for knowing violations."	are significant penalties for submitting false information
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"Duly Authorized Representative":	
Printed Name and Affiliation:	Date:
and Millianon:	

			General Isee reverse to	ormalion		
Name of Project	Bruce Fr	eeman Rail Trail	CGP Tracking No.	MAR10008B	Inspection Date	
Inspector Name, Ti Contact Information		John Viens- Supt. D. W. \	White Construction, Inc., 8	<u> </u>	hnet, MA 02743,jviens@dwwl	hite com (774) 320-5830
Present Phase of Co	nstruction		SHUT DOW			
Inspection Location inspections are requ specify location wh inspection is being conducted)	uired,	ENTINE	SITE			
Inspection Frequence Standard Frequence Increased Frequence	ziicy.		ays and Within 24 hours of a	a 0.25" rain	heck all that apply, ging to sediment or nutrient-in	
- ∐Once pe	ency: er month (fo er month an	or stabilized areas)	train (for arid semi-arid or	drought still		
If yes, how did y Rain gauge Total rainfall am	ou determi on site ount that tri	ggered the inspection (in in	event has occurred? esentative of site. Specify,w		AM FORCE BASÉ 24	
	ne that any oplete the to	portion of your site was un			Мио	
- Location	(s) where c	onditions were found:				v

Type/Location of E&S Control [Add an additional sheet if necessary]	Repairs or Other Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	nstructions)
I. NONE AT THIS TIME	Yes No	Yes Mo		SITE PROZEN AND PARTIMILY SNOW COVERED
2.	□Yes □No	□Yes □No		SNOW COVERED
3.	□Yes □No	□Yes □No		
1.	Yes No	□Yes □No	.	
5.	☐Yes ☐No	□Yes □No		
s.	□Yes □No	□Yes □No		
r.	☐Yes ☐No	□Yes □No		
i.	□Yes □No	□Yes □No		
	□Yes □No	□Yes □No		
0.	□Yes □No	□Yes □No		

^{*} Note: The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition and requires repairs if controls are not operating as intended. Corrective actions are triggered only for specific, more serious conditions, which include: 1) A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3; 2) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 3) One of the prohibited discharges in Part 2.3.1 is occurring or has occurred; or 4) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.2. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at www.epa.gov/npdes/stormwater/swppp. See Part 5 of the permit for more information.

	, ", "Condi	lion and Effecti	veness of Follution	rrevention (P2):Practices (CGP:)Part 2(3))
Type/Location of P2 Practices [Add an additional sheet if necessary]	Repairs or Other Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	Notes
1. N/A	□Yes 🖪No	□Yes □No	N/A	ASSUBAT ROVER BUD NASUBBA
2.	□Yes □No	□Yes □No		BROOK VERY HIGH.
3.	□Yes □No	□Yes □No		EDGES PROZEN
4.	□Yes □No	□Yes □No		
5.	□Yes □No	□Yes □No		
6.	□Yes □No	∏Yės ∏No		
7.	□Yes □No	□Yes □No		
8.	□Yes □No	□Yes □No		
9.	□Yes □No	□Yes □No		
* Note: The permit differentiate to	□Yes □No	□Yes □No		

^{*} Note: The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition and requires repairs if controls are not operating as intended. Corrective actions are triggered only for specific, more serious conditions, which include: 1) A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3; 2) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 3) One of the prohibited discharges in Part 2.3.1 is occurring or has occurred; or 4) EPA you must also fill out a corrective action form found at www.epa.gov/npdes/stormwater/swppp. See Part 5 of the permit for more information.

Stabilization Area [Add an additional sheet if necessary]	Stabilization Method	Have You Initiated Stabilization?	Notes
1. N/4	NA	YES NO	POWDER MIN GRASS SUO.
2.		YES NO	WOZ G000.
3.		YES NO	
4.		☐ YES ☐ NO If yes, provide date:	
5.		☐ YES ☐ NO If yes, provide date:	

Discharge Location	arge occurring from any part of your site at the time of the inspection? Yes No Observations
[Add an additional sheet if necessary]	
••	Describe the discharge:
NONE	At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visings of erosion and/or sediment accumulation that can be attributed to your discharge? Yes No If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:
•	Describe the discharge:
NONE	
	At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visil signs of erosion and/or sediment accumulation that can be attributed to your discharge? Yes No
	If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:

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Contractor of Subcontractor Centifical	lion and Signature
in the state of th	
L'Il Certify under penalty of law that the	。 第一章
system designed to assure that gualified personnel properly authorized are	ed under my direction or supervision in accordance with a
system designed to assure that qualified personnel properly gathered and evaluated person or persons who manage the system, or those persons directly responsible for a person of the pe	d the information submitted. Based on my inquine of the
person or persons who manage the system, or those persons directly responsible for going the possibility of fine and invertible of the complete. I am aware that the	gathering the information, the information submitted is to the
best of my knowledge and belief, true, accurate, and complete. I am aware that the including the possibility of fine and imprisonment for knowing vialations."	ere are significant penalties for submitting false information
A James and the first of knowling violations."	1 1 Information,
Signature of Contractor or Subcontractor:	1/9/1/10
Tall the same	Date: //20/10
Printed Name and Affiliation: JOHN VIETS DW WINTE COA	Date: 1/26/18 USTRUCTION
	3 (120(0710)0
Cerilication and Signature by:	Reimillee
A A A A A A A A A A A A A A A A A A A	
"I certify under penalty of law that this document and all attachments were prepared system designed to assure that qualified personnel properly gathered and evaluated	。 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
system designed to assure that qualified personnel properly gathered and evaluated person or persons who manage the system, or those persons directly responsible for achief the system.	d under my direction or supervision in account
person or persons who manage the system and properly gathered and evaluated	the information submitted Based on west
best of my knowledge and belief true good the system, or mose persons directly responsible for go	athering the information, the information
person or persons who manage the system, or those persons directly responsible for go best of my knowledge and belief, true, accurate, and complete. I am aware that the including the possibility of fine and imprisonment for knowing violations."	ere are significant penalties for the
best of my knowledge and belief, true, accurate, and complete. I am aware that the including the possibility of fine and imprisonment for knowing violations."	as a summer in perialities for submitting talse information,
Signature of Permittee or	
"Duly Authorized Representative":	
	Date:
Printed Name and Affiliation:	





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National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Surface Water	▼	United States	•	GO

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USGS 01100568 SHAWSHEEN RIVER AT HANSCOM FIELD NEAR BEDFORD, MA

PROVISIONAL DATA SUBJECT TO REVISION

Click to hidestation-specific text

LOCATION--Lat 42°28′01″, long 71°16′22″, Middlesex County, Hydrologic Unit 01070002, on left bank, 300 ft downstream from FAA hangar at Hanscom Field and 1.6 mi south of Bedford.

DRAINAGE AREA--2.13 mi².

PERIOD OF RECORD--Discharge: October 1995 to current year.

Precipitation: October 1996 through September 1999, October 2002 to September 2004.

Water quality: water years 1995-2001.

GAGE--Data Collection Platform with satellite telemeter. Datum of gage is 115 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS-- Discharge values are highly provisional and will change significantly after thorough check and review of data. Gage-height values are accurate. Precipitation gage re-established on site February 2013.

COOPERATION BY--U. S. Air Force

The precipitation data for this station are temporary and will only be displayed for 120 days. Time series of 15-minute or cumulative daily values WILL NOT be available for retrieval following the 120-display period. Although the instrumentation is calibrated at least once/year, the temporary classification means that documented routine inspections and other quality assurance measures are not performed that would make the data acceptable for archival, retrieval, or future use in general scientific or interpretive studies.

Boating safety tips

This station managed by the Northborough MA Field Office.

Available Parameters	Period of Record			
All 3 Available Parameters for this site				
00010 Temperature, water(Min.,Max.,Mean)	2017-08-02 2018-03-01			
■ 00045 Precipitation(Sum)	1996-09-30 2018-03-01			
00060 Discharge(Mean)	1995-10-01 2018-03-01			
Output format				
○ Graph				
○ Graph w/ stats				
○ Graph w/ meas				
Graph w/ (up to 3) parms				
Table				
Tab-separated				
Days (30) Summary of all available data for this site				
Instantaneous-data availability statement				
or	•			
Begin date				
2018-01-01				
End date				
2018-01-31				
Daily Sum Precipitation				

Daily Precipi total, i	tation,
DATE	Jan 2018
1	0.00 ^P
2	0.00 ^P

GO

3	0.00 ^P	
4	0.13 ^P	
5	0.00 ^P	
6	0.00 ^P	
7	0.20 ^P	
8	0.00 ^P	
9	0.00 ^P	
10	0.00 ^P	
11	0.00 ^P	
12	0.65 ^P	
13	0.44 ^P	
14	0.00 ^P	
15	0.00 ^P	
16	0.00 ^P	
17	0.21 ^P	
18	0.00 ^P	
19	0.00 ^P	
20	0.00 ^P	
21	0.00 ^P	
22	0.10 ^P	
23	0.80 ^P	
24	0.00 ^P	
25	0.00 ^P	
26	0.00 ^P	
27		

2	10	10	1	18
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MIN	0.00
MAX	0.80
COUNT	31
31	0.00 ^P
30	0.01 ^P
29	0.00 ^P
28	0.03 ^P
	0.00 ^P

Explanation

Provisional data subject to revision.

Questions about sites/data?

Feedback on this web site

Automated retrievals

<u>Help</u>

Data Tips

Explanation of terms

Subscribe for system changes

<u>News</u>

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U.S. Department of the Interior | U.S. Geological Survey

Title: USGS Surface-Water Daily Data for the Nation

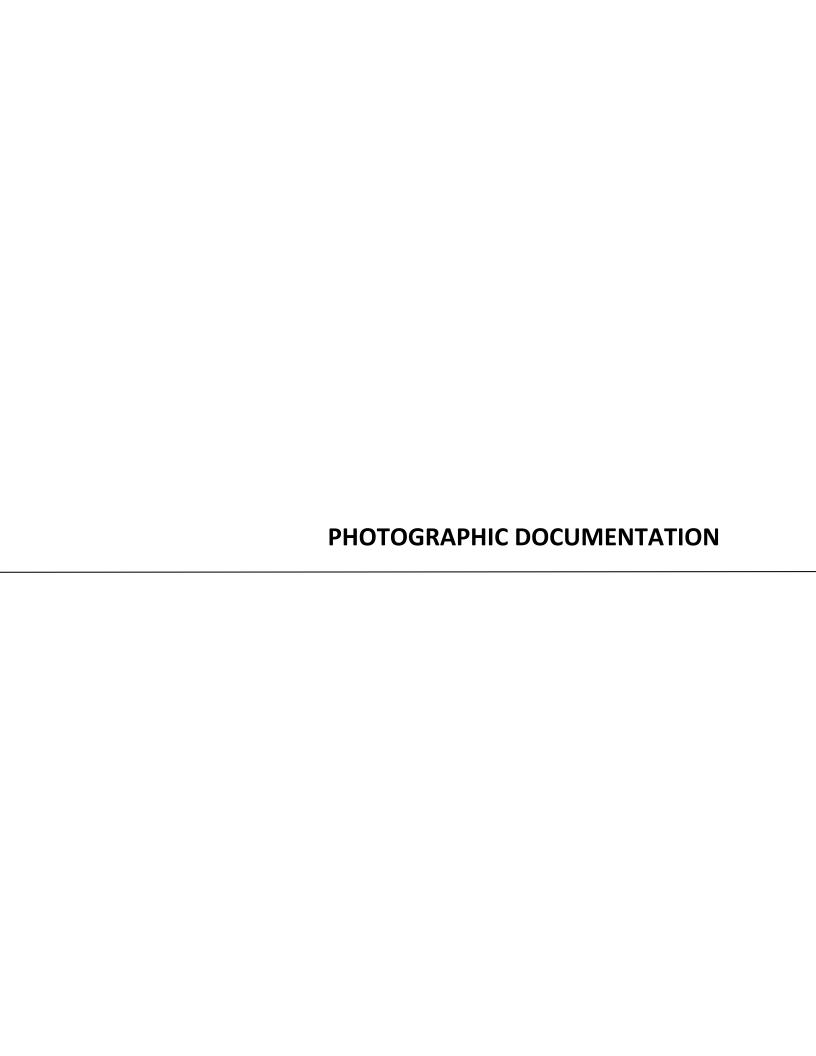
URL: https://waterdata.usgs.gov/nwis/dv?

Page Contact Information: <u>Massachusetts Water Data Support Team</u>

Page Last Modified: 2018-03-02 13:39:33 EST

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PHOTOGRAPH LOG JANUARY 15, 2018



STATUS OF PATH LEADING TO BROOKSIDE SQUARE.



STATUS OF PATH LEADING TO BRIDGE #C-19-038.



PHOTOGRAPH LOG JANUARY 15, 2018



STATUS OF POWDER MILL ROAD CULVERT SLOPE.



EXAMPLE OF WINTER CONDITIONS AND EROSION CONTROL STATUS.